

Notice of Allowability	Application No.	Applicant(s)
	10/602,241	CHENG ET AL.
	Examiner	Art Unit
	Walter L. Lindsay, Jr.	2812
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>Amendment 9/13/2004</u> .		
2. The allowed claim(s) is/are <u>1-14 and 21-27</u> .		
3. The drawings filed on 24 June 2003 are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date	6. Interview Summary Paper No./Mail Dat 7. Examiner's Amendo	e

DETAILED ACTION

This Office Action is in response to an Amendment filed on 9/13/2004.

Currently, claims 1-14 and 21-27 are pending. Claims 15-20 have been canceled.

Allowable Subject Matter

- 1. Claims 1-14 and 21-27 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: the prior art, either singly or in combination fails to anticipate or render obvious, the limitations of:

...forming a second adjacent the first spacer, wherein the second spacer comprises a low thermal budget oxide formed with a thermal budget of less than 600 degrees Celsius, as required by claims 1 and 8.

The prior art, either singly or in combination fails to anticipate or render obvious, the limitations of:

...further including depositing a nitride layer over the gate electrode and lightly-doped regions and forming the first spacer from the nitride layer, and further including depositing an oxide layer over the gate electrode and lightly-doped regions and forming the first spacer from the oxide layer, as required by claims 5 and 12.

The prior art, either singly or in combination fails to anticipate or render obvious, the limitations of:

...forming an interconnect in said contact opening, the interconnect being electrically coupled to the deep source/drain regions, as required by claims 7 and 14.

Lastly the prior art, either singly or in combination fails to anticipate or render obvious, the limitations of:

... implanting impurities into the substrate using the gate electrode as an implant mask to form lightly-doped regions in the substrate, wherein at least part of the HALO pocket regions extend below the lightly doped regions, as required by claim 21.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Walter L. Lindsay, Jr. whose telephone number is (571) 272-1674. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John F Niebling can be reached on (571) 272-1679. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

September 28, 2004

Supervisory Patent Examiner Technology Center 2800